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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/619,662
Filing Date	July 15, 2003
First Named Inventor	William Howard Roark
Art Unit	1614
Examiner Name	Unknown
Attorney Docket Number	PC25132A

Total Number of Pages in This Submission

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☑ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
  - ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
- ☐ After Allowance Communication to a Technology Center (TC)
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☑ Other Enclosure(s) (please Identify below):
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Firm or Individual	Claude F. Purchase, Jr.
Signature	Claude F. Purchase, Jr.
Date	April 2, 2004

CERTIFICATE OF TRANSMISSION/MAILING

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1. TRANSMITTAL FORM (1 PAGE)
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3. COPIES OF ALL REQUIRED CITED ART
4. AUTHORIZATION TO DEBIT/CREDIT DEPOSIT ACCOUNT 23-0455
5. CERTIFICATE OF MAILING
6. RETURN POSTCARD

Inventor: W. H. Roark
Invention Titled: "Combination of an Allosteric Carboxylic Inhibitor of Matrix Metalloproteinase-13 With a Selective Inhibitor of Cyclooxygenase-2 That is Not Celecoxib or Valdecoxib"

USSN: 10/619,662 FILED: 07/15/2003

CFP:VG/NDD
PC25132A April 2, 2004

PTO/SB/08A (08-03)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 19

Complete if Known	
Application Number	10/619,662
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First Named Inventor	William Howard Roark
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Attorney Docket Number	PC25132A

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 5,082,838	01/21/1992	Naka, et al	
		US- 5,817,819	10/06/1998	Furuya, et al	
		US- 5,948,780	09/07/1999	Peterson Jr., et al	
		US- 6,008,243	12/28/1999	Bender, et al	
		US- 5,747,486	05/05/1998	Sohda, et al	
		US- 5,403,843	04/04/1995	Akimoto, et al	
		US- 5,284,661	02/08/1994	Morimoto, et al	
		US- 5,521,181	05/28/1996	Meyer, et al	
		US- 6,166,019	12/26/2000	Meyer, et al	
		US- 5,334,596	08/02/1994	Hartman, et al	
		US- 4,835,157	05/30/1989	Press, et al	
		US- 5,792,767	08/11/1998	Meyer, et al	
		US- 5,378,704	01/03/1995	Weller III	
		US- 3,296,070	01/03/1967	Topliss, et al	
		US- 2002-0156061	10/24/2002	Barvian, et al	
		US- 2003-0004172	01/02/2003	Harter, et al	
		US- 2002-019377	02/14/2002	Jenkins, et al	
		US- 2002-0151558	10/17/2002	Andrianjara, et al	
		US- 2002-0156069	10/24/2002	Picard, et al	

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		WO 95/35296	12/28/1995	Takatani, et al		
		WO 99/09485	02/24/2000	McClure, et al		
		WO 02/34726	05/02/2001	Noe, et al		
		WO 01/12611	02/22/2001	Blagg		
		WO 02/34753	05/02/2002	Bronk, et al		
		WO 01/05389	01/25/2001	Stallings, et a		

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Sheet 2 of 19

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Examiner Name	Unknown
Attorney Docket Number	PC25132A

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		US- 2002-0151555	10/17/2002	Barvian, et al	
		US- 2002-0161000	10/31/2002	Barvian, et al	
		US-			
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		WO 99/05148	02/04/1999	Collins, et al		
		WO 03/049738	06/19/2003	Weithmann,et al		
		WO 02/064568	08/22/2002	Barvian, et al		
		WO 02/064571	08/22/2002	Barvian, et al		
		WO 01/63244 A1	08/30/2001	Chen, et al		
		WO 97/07119	02/27/1997	Furuya, et al		

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Sheet 3 of 19

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Art Unit	1614
Examiner Name	Unknown
Attorney Docket Number	PC25132A

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		WO 98/54116	12/03/1998	Castelhano, et al		
		WO 96/22991	08/01/1996	Meyer, et al		
		WO 95/28405	10/26/1995	Furuya, et al		
		WO 92/20687	11/26/1992	Chakravarty, et al		
		WO 00/61583	10/19/2000	Klein, et al		
		WO 00/04027	01/27/2000	Meyer, et al		

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Sheet 4 of 19

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Application Number	10/619,662
Filing Date	July 15, 2003
First Named Inventor	William Howard Roark
Art Unit	1614
Examiner Name	Unknown
Attorney Docket Number	PC25132A

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		WO 98/49899	11/12/1998	Atherall, et al		
		WO 99/64400	12/16/1999	Salituro, et al		
		WO 97/43239	11/20/1997	Van Zandt, et al		
		WO 02/064080	08/22/2002	Andrianjara, et al		
		WO 02/064572	08/22/2002	Andrianjara, et al		
		WO 00/66584	11/09/2000	Gaudilliere, et al		

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Sheet 5 of 19

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		WO 97/49692 A	12/31/1997	Pirotte, et al		
		WO 98/49146	11/05/1998	Kelley, et al		
		WO 92/20676	11/26/1992	Ito, et al.		
		EP 0 404 525 B1	05/15/1996	Naka, et al		
		EP 404 525 A	12/27/1990	Naka, et al		

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Sheet 6 of 19

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		EP 0935963	08/18/1999	McClure, et al		
		EP 1138680	10/04/2001	Noe		
		EP 0418797	03/27/1991	Baader, et al		
		EP 0463592	01/02/1992	Baader, et al		
		EP 0 915 093 A	05/12/1999	Okamura, et al		
		EP 0 530 537 B1	01/08/1997	Akimoto, et al		

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		EP 0 443 568 A1	08/28/1991	Morimoto, et al		
		EP 0 443 568 B1	06/12/1996	Morimoto, et al		
		EP 0 492 316 A1	07/01/1992	Akimoto, et al		
		EP 0 502 725 A2	09/09/1992	de Laszlo		
		EP 0 530 537 A1	03/10/1993	Akimoto, et al		
		EP 0 416 740 A2	03/13/1991	Smith, et al		

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Sheet 8 of 19

Complete if Known	
Application Number	10/619,662
Filing Date	July 15, 2003
First Named Inventor	William Howard Roark
Art Unit	1614
Examiner Name	Unknown
Attorney Docket Number	PC25132A

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS

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		EP 0 297 661 B1	09/16/1992	Janssens, et al		
		EP 0 438 261 A2	07/24/1991	Akimoto, et al		
		EP 0 297 661 A1	01/04/1989	Janssens, et al		
		EP 0 282 133 B1	09/14/1988	Janssens, et al		
		EP 260 057 A2	03/16/1988	Schmalzl, et al		
		EP 0 463 592	01/02/1992	Baader, et al		

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	1	GB 2 097 396 A	11/03/1982	Seivaku, et al		
	2	DE 41 37 437 A1	05/19/1993	Furrer, et al		
	3	JP 5193260	03/08/1993			
	4	DE 2441959	03/13/1975	Egli, et al.		
	5	FR 4279M	08/16/1966	Vernin, et al		
	6	JP 08 151380 A	06/11/1996			

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Sheet 10 of 19

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		WO 02/064599	08/22/2002	Andrianjara, et al		
		WO 02/064547	02/22/2002	Barvian, et al		
		WO 02/064598	08/22/2002	Harter, et al		
		WO 02/064572	02/22/2002	Andrianjara, et al		
		WO 02/064595	08/22/2002	Andrianjara, et al		

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	6	WO 02/064578	08/22/2002	Picard, et al		

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Sheet 12 of 19

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NON PATENT LITERATURE DOCUMENTS

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		Montana, et al, "The design of selective non-substrate-based matrix metalloproteinase inhibitors", Current Opinion in Drug Discovery & Development, 2000; 3(4); pp 353-261	
		Clark, et al, "Matrix metalloproteinase inhibitors in the treatment of arthritis", Current Opinion in Drug Discovery & Development, 2000; 2(1); pp 16-25	
		Chen, et al, "Structure-Based Design of a Novel, Potent, and Selective Inhibitor for MMP-13 Utilizing NMR Spectroscopy and Computer-Aided Molecular Design", J. Am. Chem. Soc., 2000, 122; pp 9648-9654	
		Derwent Abstract 96-068630/07, "New fused imidazole cpds. - possess inhibitory activity of adhesion molecule expression (Eng.)"	
		Derwent Abstract 93-168431/21, "New Thiazolo-pyrimidine disone derivs. for treating anteriosclerosis"	
		Derwent Abstract 91-001547/01, "New sulphur-Contg. fused pyrimidine cpds. - are endothelin and interleukin inhibitors for treatment and prevention of myocardial infarction, auto:immune diseases,etc.",	
		Derwent Abstract, 93271 E/44, "Cyclised pro-form of 5-fluoro-uracil derivs. - are orally administered antitumour agents without side effects of parent"	
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		Kaul, et al, "Structure of a novel sulphur-containing metabolite of Acluracil (1-allyl1-3,5-diethyl-6-chlorouracil)", Xenobiotica, 1982, Vol. 12, No. 8; pp 495-498	
		Kaul, et al, "Identfizierung eines dritten S-haltigen Metaboliten von 1-Allyl-3,4-diethyl-6-chloruracil und Bildungsmechanismus der SCH - Metaboliten", Arzneim.-Forsch./Drug Res., 982; 32(I)(6); pp 610-612	

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Sheet 13 of 19

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Filing Date	July 15, 2003
First Named Inventor	William Howard Roark
Art Unit	1614
Examiner Name	Unknown
Attorney Docket Number	PC25132A

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		Brown, et al, "The Synthesis of Some 1-Substituted Cytosine and Uracil Derivatives", J. Chem. Soc., 1972; pp 2385-2391	
		Pecorari, et al, "Synthesis and Biological activity of Pyrimido [2,1-b] [1,3] Thiazine, [1,3]Thiazino[3,2-a]Purine and [1,2,3]Triazolo[4,5-d][1,3]Thiazino [3,2-a]Pyrimidine Derivatives and thiazole Analogues (*)", IL Farmaco, 46 (7,8), 1991; pp 899-911	
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		Chem. Abstr. 1992; 117; pp 143023e	
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		Boger, et al, "Identification of a novel class of small-molecule antiangiogenic agents through the screening of combinatorial libraries which function by inhibiting the binding and localization of proteinase MMP2 to integrin. alpha. V. beta 3", Journal of the American Chemical Society 2001; 123: pp 1280-1288	
		Silletti, et al, "Disruption of matrix metalloproteinase 2 binding to integrin alpha v beta 3 by an organic molecule inhibits angiogenesis and tumor growth in vivo", Proceeding of the National Academy of Sciences of the United States of America, 2001; 98(1); pp 119-124	
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		Hirota, et al, "Synthesis of 6-Substituted Thieno[2,3-d]pyrimidine-2,4(1H,3H)-diones", J. Heterocycl. Chem., Vol 12, 1974; pp 717-721	
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		HCAPLUS Abstract 1990: 514925; "Pyrimidines. 65. Synthesis of 6-substituted thieno [2,3-d] pyrimidine-2 4(1H,3H) - diones"	
		Derwent Abstract 2000-687031/67, "New Xanthine derivatives are inhibitors of cellular processes mediated by interleukin-12 for treating inflammatory responses e.g. chronic inflammatory disease, chronic intestinal inflammation, arthritis, psoriasis and asthma (Eng)"	
		Derwent Abstract 92-415690/50, "New Pyrimidinone derivs are angiotensin II antagonists for treating hypertension, congestive heart failure, renal failure, Alzheimer's diesease, amnesia, schizophrenia, etc. (Eng)"	
		Derwent Abstract 92-302020/37, "New fused pyrimidinone derivs. - are antiotensin II antagonists to treat hypertension, congestive heart failure, Alzheimer's disease, amnesia, anxiety, schizophrenia, etc. (Eng)"	
		Derwent Abstract 91-254180/35, "New angiotensin-II antagonising fused thiphene derivatives - used for treating hypertension and circulatory diseases including heart diseases and stroke"	
		Derwent Abstract 89-192246/26, "New 3-piperidinyl:alkyl-thieno: or furo pyrimidine-2,4-di:one cpds. - usefule as seratonin antagonists and alpha adrenergic blockers"	
		Derwent Abstract 2000-195023/17, "New ipiperazinyl pyrimidine dione derivatives used as selective alpha-ID adrenoceptor antagonists for treating benign prostatic hyperplasia, hypertension, detrusor instability and incontenence (Eng)"	

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		Derwent Abstract 2001-158207/16, "New piperazinyl pyrimidine dione derivatives are selective alpha-ID adrenoceptor antagonists used for treatment of e.g. hypertension"	
		Derwent Abstract 96-362624/36, "New Bi:cyclic substd. hexa:hydro-benz-isoindole derivs. - are alpha-1 adrenergic antagonists, used in treatment of benign prostatic hyperplasia (Eng)"	
		Derwent Abstract 89-008928/02, "New bi:cyclic heterocycle substd. hexa-hydro-1H-azepine-and pyrrolidine cpds., have anti-histaminic properties, for treatment of e.g. allergic rhinitis, allergic asthma, etc."	
		Derwent Abstract 88-258874/37, "New 1-alkyl substd. benzimidazole derivs. - having anti-histaminic activity and used for treating allergic diseases such as allergic asthma"	
		Derwent Abstract 91-216939/30, "New condensed heterocyclic glutemic acid dervis., - active against enzyme using folic acid and antitumour agents for treating e.g. leukemia"	
		Derwent Abstract 99-080786/07, "New thiophene-and pyrrole-based hetero-aromatic compounds - are ant(agonists of cell surface receptors, useful e.g. for inhibiting unwanted cell growth e.g. due to cancer (Eng)"	
		Derwent Abstract 97-165234/15, "New thieno-pyrimidine derivs. are endothelin antagonists - useful for treating e.g. acute renal failure, cardiac infarction, liver insufficiency, organ hypo-function and vasoconstriction (Eng)"	
		Derwent Abstract 96-384384/38, "New 2,4(1H,3H)-di:oxo-5-aminoalkyl)thieno(2,3-d)-pyrimidine derivs. - are gonadotropin-releasing hormone antagonistic agents useful in prevention and treatment of sex hormone dependent diseases (Eng)"	
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		Derwent Abstract 93-299636/38, "New condensed heterocyclic oligo-glutamate derivs. - used as water soluble antitumour agent and have bood storage stability in cells"	

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		Derwent Abstract 93-078155/10, "New antitumour condensed pyrimidine derivs. - for treating chorlocarcinoma, leukemia, breast adenocarcinoma, squamous cells carcinoma, lung cancer, lympho sarcoma, etc. and also rheumatism (Eng)"	
		Derwent Abstract 92-218561/27, "Antitumoural condensed heterocyclic oligo:glutamate derivs. - for treating leukemia, squamous cell carcinoma, lymphatic sarcoma, small cell cancer of the lung etc. (Eng)"	
		Derwent Abstract 96-267825/27, "New hexa:hydro benz(e)isoindole cpds. - are useful in treatment of benign prostatic hpyerplasia (Eng)"	
		Derwent Abstract 94-248420/30, "Furano- and thieno- (3,2-c)piperidone carboxamido-acids - are fibrinogen receptor antagonists, inhibit blood platelet aggretation, used in thrombi and emboli treatment"	
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Sheet 17 of 19

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Application Number	10/619,662
Filing Date	July 15, 2003
First Named Inventor	William Howard Roark
Art Unit	1614
Examiner Name	Unknown
Attorney Docket Number	PC25132A

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
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